

**TABLE 1.** Summary of the results of the regression analysis of the factors associated with the presence of *S. aureus* in the nose of patients with rhinosinusitis. The variables were selected based on the results of the univariate analysis. The values are expressed as OR (95% CI).

| Variable   | OR   | 95% CI    |
|--|------|-----------|
| Gender   |      |           |
| Male   | 0.86 | 0.37-2.00 |
| Female   | 1.00 |           |
| Age  |      |           |
| < 18 years   | 0.86 | 0.37-2.00 |
| 18-35 years  | 1.00 |           |
| ≥ 36 years   | 0.86 | 0.37-2.00 |
| Duration of symptoms   |      |           |
| < 1 month  | 0.86 | 0.37-2.00 |
| 1-3 months   | 1.00 |           |
| ≥ 3 months   | 0.86 | 0.37-2.00 |
| Previous antibiotic treatment  |      |           |
| No   | 0.86 | 0.37-2.00 |
| Yes  | 1.00 |           |
| Previous surgery   |      |           |
| No   | 0.86 | 0.37-2.00 |
| Yes  | 1.00 |           |
| Family size  |      |           |
| ≤ 3 members  | 0.86 | 0.37-2.00 |
| > 3 members  | 1.00 |           |
| Smoking status   |      |           |
| Non-smoker   | 0.86 | 0.37-2.00 |
| Smoker   | 1.00 |           |
| Occupation   |      |           |
| Healthcare worker  | 0.86 | 0.37-2.00 |
| Other  | 1.00 |           |
| Comorbidities  |      |           |
| Allergy  | 0.86 | 0.37-2.00 |
| Asthma   | 0.86 | 0.37-2.00 |
| Diabetes mellitus  | 0.86 | 0.37-2.00 |
| Hypertension   | 0.86 | 0.37-2.00 |
| Chronic renal failure  | 0.86 | 0.37-2.00 |
| Immunosuppression  | 0.86 | 0.37-2.00 |
| Medication   |      |           |
| Corticosteroids  | 0.86 | 0.37-2.00 |
| Antibiotics  | 0.86 | 0.37-2.00 |
| Immunomodulators   | 0.86 | 0.37-2.00 |
| Decongestants  | 0.86 | 0.37-2.00 |
| Mucolytics   | 0.86 | 0.37-2.00 |
| Saline irrigations   | 0.86 | 0.37-2.00 |
| Vaccination  |      |           |
| Influenza  | 0.86 | 0.37-2.00 |
| Pneumococcus   | 0.86 | 0.37-2.00 |
| Diphtheria-tetanus-pertussis   | 0.86 | 0.37-2.00 |
| Polio  | 0.86 | 0.37-2.00 |
| Measles-mumps-rubella  | 0.86 | 0.37-2.00 |
| Hepatitis A  | 0.86 | 0.37-2.00 |
| Hepatitis B  | 0.86 | 0.37-2.00 |
| Hepatitis C  | 0.86 | 0.37-2.00 |
| HIV  | 0.86 | 0.37-2.00 |
| Typhoid fever  | 0.86 | 0.37-2.00 |
| Scarlet fever  | 0.86 | 0.37-2.00 |
| Dysentery  | 0.86 | 0.37-2.00 |
| Shingles   | 0.86 | 0.37-2.00 |
| Zoster   | 0.86 | 0.37-2.00 |
| Varicella  | 0.86 | 0.37-2.00 |
| MMR  | 0.86 | 0.37-2.00 |
| MMRV   | 0.86 | 0.37-2.00 |
| MMRV + Hib   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles  | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV  | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio  | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A  | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever  | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster  | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella  | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR  | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR  | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio   | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A                                     | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever                     | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles          | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster + Varicella + MMR + MMRV + MMVR + MMRV + Hib + Polio + Hepatitis A + Typhoid fever + Shingles + Zoster | 0.86 | 0.37-2.00 |
| MMRV + Hib + Polio +   |      |           |

Samuel W Liu

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